

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Leveling of Site and Construction of Retaining Wall to Indira Kitchen at BWSSB Property in Sy No. 109, Singapura Village in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Sl. No	Description	Unit	No.	L	B	D	Estimate Cost:		
							Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Page No. 5 / Item No. 2.1 of PWD SR 2016-17	Cum							
	Leveling of Ground		1	27.45	15.25	4.3+2.8+0.6	1074.44		
						3			
	Basic Rate	157.00					1074.44	284.13	305276.00
	Add loading and unloading Charges It No 17.1 KSRRB M 100-1	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		263.08							
	Area Weightage @ 8%	21.05							
	Total	284.13							
2	KSRRB 300-6. Excavation soft rock without blasting for formation of roads including stacking neatly, to uniform line and level including cost of explosives, labour, HOM of machineries and equipments complete as per specifications. (with all lead and lift) MORTH / Chapter 3 Page No. 140, Item No. 19.6, PWD SR 2016-17	cum							
	Leveing of Ground		1	27.45	15.25	0.45	188.38		
	Basic Rate	750.00					188.38	810.00	152584.00
	Area Weightage @ 8%	60.00							
	Total	810.00							
3	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202 Page No. 137 / Item No. 18.26, PWD SR 2016-17	Cum							
			1	6.00	0.45	1.50	4.05		
	Basic Rate	205.00					4.05	221.40	897.00
	Area Weightage @ 8%	16.40							
	Total	221.40							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 142 / Item No. 19.1 / PWD SR 2016-17	Cum							
	For Retaining Wall		2	15.50	0.60	0.60	11.16		
			1	22.00	0.60	0.60	7.92		
	Building Surroundings		1	27.45	1.00	0.15	4.12		
			2	14.35	1.00	0.15	4.31		
	Basic Rate	82.00					27.50	203.13	5586.00
	Add loading and unloading Charges It No 17.1 KSRRB M 100-1	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 8%	15.05							
	Total	203.13							
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2 (P No. 12/I No. 4.2 of CSR 2016-17)	Cum							
	Bottom Concrete		2	15.50	0.60	0.15	2.79		
			1	22.00	0.60	0.15	1.98		
	Building Surroundings		1	27.45	1.00	0.15	4.12		
			2	14.35	1.00	0.15	4.31		
	Basic Rate	5046.00					13.19	5449.68	71895.00
	Area Weightage @ 8%	403.68							
	Total	5449.68							
6	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls ing or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc. , including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 Page No. 12, Item No. 4.12, PWD SR 2016-17	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Retaining Wall		2	15.50	0.45+0.23	3.80	40.05		
					2				
			1	22.00	0.45+0.23	3.80	28.42		
					2				
	Basic Rate	6367.00					68.48	6876.36	470866.00
	Area Weightage @ 8%	509.36							
	Total	6876.36							
7	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17	Tonne							
	@ 100 Kg / Cum		0.12	68.48			8.22	65455.56	537856.00
	Basic Rate	60607.00							
	Area Weightage @ 8%	4848.56							
	Total	65455.56							
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31 / PWD SR 2016-17	Sqm							
	Side Wall		4	15.50		3.80	235.60		
			2	22.00		3.80	167.20		
	Basic Rate	293.00					402.80	316.44	127462.00
	Area Weightage @ 8%	23.44							
	Total	316.44							
9	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) - Ready mixed Cement concrete for Beams, Staircase and Roof with M-20 Page No. 17, Item No. 4.49.1 PWD SR 2016-17	Cum							
	Building Surroundings		1	27.45	1.00	0.15	4.12		
			2	14.35	1.00	0.15	4.31		
	Basic Rate	5879.00					8.42	6349.32	53477.00
	Area Weightage @ 8%	470.32							
	Total	6349.32							

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	Retaining Wall		2	15.50	0.45+0.23	3.80	40.05		
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	Basic Rate	60607.00							
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			2	14.35	1.00	0.15	4.31		
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Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 mm M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. Page. No. 43 / Item. No. 7.37 PWD SR 2016-17	Sqm							
			2	3.50	2.20		15.40		
	Basic rate	2934.00					15.40	3168.72	48798.00
	Area Weightage @ 8%	234.72							
	Total	3168.72							
	Sub Total								1774697.00
	KRIDL Charges @ 10%								177470.00
	For Third Part Inspection Charges @ 1%								17747.00
	Miscellaneous and other Charges	L/S							1086.00
								Total	1971000.00
Rupees Nineteen Lakh(s) Seventy One Thousand Only									

CERTIFICATE:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2016-17.
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayanyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval

Accorded For **Rs. 19.71 Lacs only**
Head of A/C **P-3106**
CER NO **As. 105/1879 DE**

TA

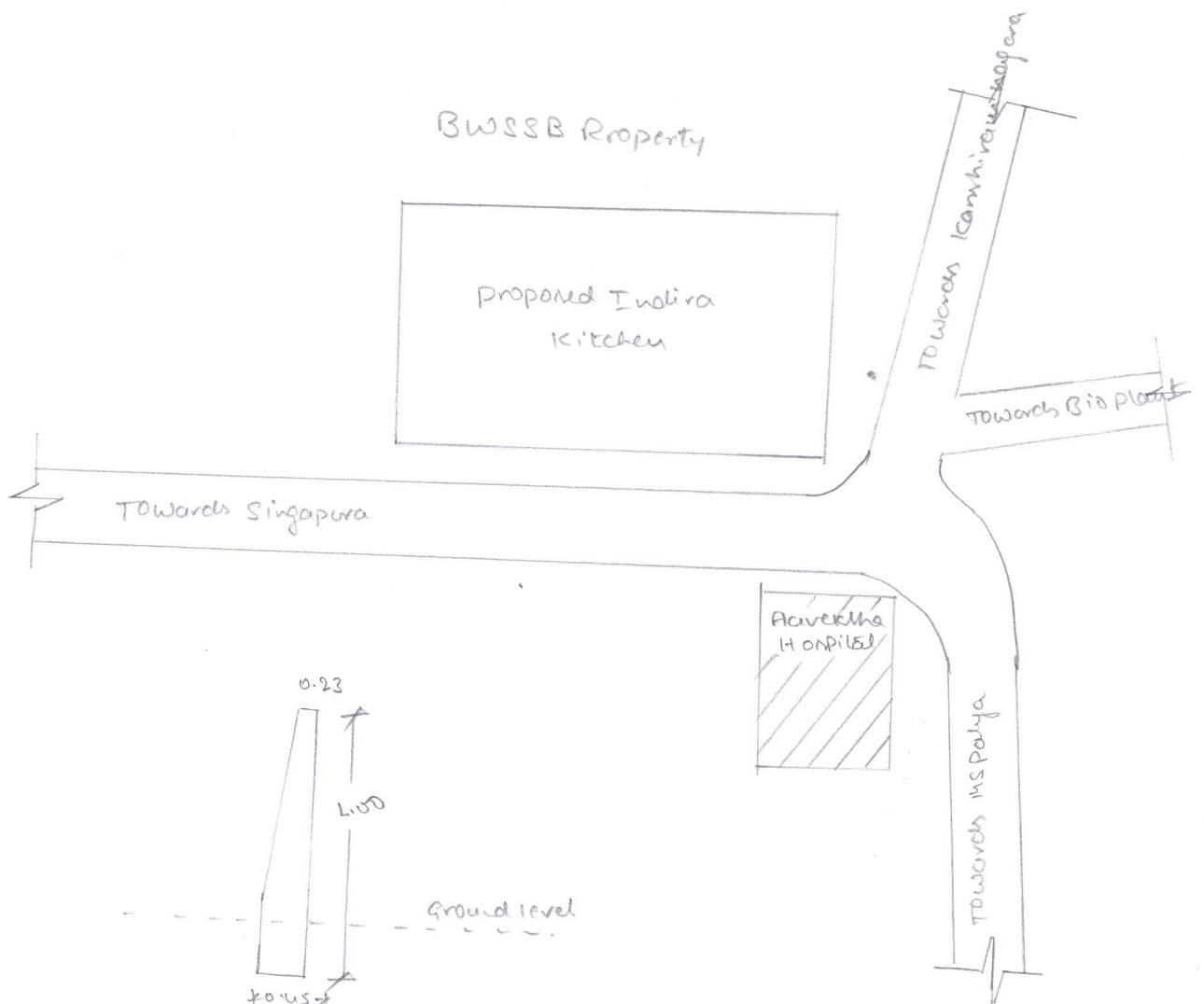
CE (YNK)

TECHNICAL SANCTION

Accorded For Rs. **19.71 Lacs**
Head of A/C **P-3106**
Div. Ref. No. **61/18-19** Date **3/09/18**

AE 3/09

EE(BTP) 3/09



Cross section of Retaining Wall.

[Signature]
D.No. 11

[Signature]
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97